



POCKET NO.: CELL-0296

PATENT

PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Helene Margaret Finney, et al.

Confirmation No.: Not Yet Assigned

Application No.: 10/533,003

Group Art Unit: Not Yet Assigned

Filing Date: April 28, 2005

Examiner: Not Yet Assigned

For: CHIMERIC CYTOPLASMIC SIGNALLING MOLECULES

DATE OF DEPOSIT:

July 18, 2005

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

TYPED NAME: Elizabeth A. McLoud

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).



In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

- ☐ Certification in Accordance with § 1.97(e) is attached; or
- ☐ The fee of **\$180.00** as set forth in § 1.17(p) is attached.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of **\$180.00** as set forth in § 1.17(p).

- ☒ Copies of reference numbers **1 - 42** listed on the attached Form PTO-1449 are enclosed herewith.

- ☐ Copies of reference numbers - on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

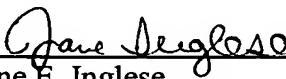
- ☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

☐ The relevance of those listed references which are not in the English language is as follows:

There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: July 15, 2005



Jane E. Inglese
Registration No. 48,444

WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. CELL-0296/ PA524-USw01		Application No. 10/533,003
	Applicant Helene Margaret Finney, et al.		
	Filing Date April 28, 2005		Group Not Yet Assigned
	Confirmation No. Not Yet Assigned		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1	Abken, H., et al., "Tuning tumor-specific T-cell activation: a matter of costimulation?," <i>Trends in Immunol., England</i> , 2002 , 23(5), 240-245	
	2	Arosa, F.A., "CD8 ⁺ CD28 ⁺ T cells: certainties and uncertainties of a prevalent human T-cell subset," <i>Immun. & Cell Biol.</i> , 2002 , 80, 1-13	
	3	Aruffo, A., et al., "Molecular cloning of a CD28 cDNA by a high-efficiency COS cell expression system," <i>Proc. of the Nat. Acad. Sci. USA</i> , 1987 , 84, 8573-8577	
	4	Burshytn, D.N., et al., "Conserved residues amino-terminal of cytoplasmic tyrosines contribute to the SHP-1-mediated inhibitory function of killer cell Ig-Like receptors," <i>J. of Immunol.</i> , 1999 , 162, 897-902	
	5	Carreno, B.M., et al., "The B7 family of ligands and its receptors: New pathways for costimulation and inhibition of immune responses," <i>Annu. Rev. Immunol.</i> , 2002 , 20, 29-53	
	6	Chambers, C.A., "The expanding world of co-stimulation: the two-signal model revisited," <i>Trends in Immunol., Cambridge</i> , 2001 , 22(4), 217-223	
	7	DeFranco, A.L., "The complexity of signaling pathways activated by the BCR," <i>Curr. Opin. In Immunol.</i> , 1997 , 9, 296-308	
	8	Eshar, Z., et al., "Functional expression of chimeric receptor genes in human T cells," <i>J. of Immunol. Methods</i> , 2001 , 248, 67-76	
	9	Finney, H.M., et al., "Chimeric receptors providing both primary and costimulatory signaling in T cells from a single gene product," <i>J. of Immunol.</i> , 1998 , 161, 2791-2797	
	10	Hombach, A., et al., "Tumor-specific T cell activation by recombinant immunoreceptors: CD3 ξ signaling and CD28 costimulation are simultaneously required for efficient IL-2 secretion and can be integrated into one combined DC28/CD3 ξ signaling receptor molecule," <i>J. of Immunol.</i> , 2001 , 167, 6123-6131	
EXAMINER		DATE CONSIDERED	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. CELL-0296/ PA524-USw01	Application No. 10/533,003
		Applicant Helene Margaret Finney, et al.	
		Filing Date April 28, 2005	Group Not Yet Assigned
		Confirmation No. Not Yet Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	11	Hutloff, A., et al., "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28," <i>Nature</i> , 1999 , 397, 263-266	
	12	Kjaergaard, J., et al., "Therapeutic efficacy of OX-40 receptor antibody depends on tumor immunogenicity and anatomic site of tumor growth," <i>Cancer Res.</i> , 2000 , 60, 5514-5521	
	13	Kuwana, Y., et al., "Expression of chimeric receptor composed of immunoglobulin-derived V regions and T-cell receptor-derived C regions," <i>Biochem. & Biophys. Res. Commun.</i> , 1987 , 149(3), 960-968	
	14	Latza, U., et al., "The human OX40 homolog: cDNA structure, expression and chromosomal assignment of the ACT35 antigen," <i>Eur. J. of Immunol.</i> , 1994 , 24, 677-683	
	15	Maher, J., et al., "Human T-lymphocyte cytotoxicity and proliferation directed by a single chimeric TCR ξ /CD28 receptor," <i>Nat. Biotech.</i> , 2002 , 20, 70-75	
	16	Miller, D.G., et al., "Gene transfer by retrovirus vectors occurs only in cells that are actively replicating at the time of infection," <i>Mol. & Cell. Biol.</i> , 1990 , 10(8), 4239-4242	
	17	Moingeon, P., et al., "Human natural killer cells and mature T lymphocytes express identical CD3 ξ subunits as defined by cDNA cloning and sequence analysis," <i>Eur. J. of Immunol.</i> , 1990 , 20, 1741-1745	
	18	Parry, R.V., et al., "CD28 and inducible costimulatory protein Src homology 2 binding domains show distinct regulation of phosphatidylinositol 3-kinase, Bcl-xL, and IL-2 expression in primary human CD4 T lymphocytes," <i>J. of Immunol., Baltimore</i> , 2003 , 171(1), 166-174	
	19	Reth, M., "Antigen receptor tail clue," <i>Nature</i> , 1989 , 338, 383-384	
	20	Rogers, P.R., et al., "OX40 promotes Bcl-xL and Bcl-2 expression and is essential for long-term survival of CD4 T cells," <i>Immunity, US</i> , 2001 , 15(3), 445-455	
EXAMINER		DATE CONSIDERED	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. CELL-0296/ PA524-USw01	Application No. 10/533,003
		Applicant Helene Margaret Finney, et al.	
		Filing Date April 28, 2005	Group Not Yet Assigned
		Confirmation No. Not Yet Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	21	Romeo, C., et al., "Activation of immune system effector function by T-cell or Fc receptor intracellular domains," <u>Cold Spring Harbour Symposia on Quantitative Biology</u> , Vol. LVII, 1992, 117-125	
	22	Shulford, W.W., et al., "4- 1BB costimulatory signals preferentially induce CD8+ T cell proliferation and lead to the amplification in vivo of cytotoxic T cell responses," <i>J. of Exper. Med., Tokyo</i> , 1997, 186(1), 47-55	
	23	Weiss, A., et al., "Signal transduction by lymphocyte antigen receptors," <i>Cell</i> , 1994, 76, 26-274	
	24	Weissman, A.M., et al., "Molecular cloning and chromosomal localization of the human T-cell receptor ξ chain: distinction from the molecular CD3 complex," <i>PNAS</i> , 1988, 85, 9709-9713	
EXAMINER		DATE CONSIDERED	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. CELL-0296/ PA524-USw01		Application No. 10/533,003	
				Applicant Helene Margaret Finney, et al.			
				Filing Date April 28, 2005		Group Not Yet Assigned	
				Confirmation No. Not Yet Assigned			
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation		
					YES	NO	
	25	WO 88/04924 A1	07/14/88	PCT			
	26	WO 90/09782 A1	09/07/90	PCT			
	27	WO 91/05545 A1	05/02/91	PCT			
	28	WO 91/05546 A1	05/02/91	PCT			
	29	WO 93/19738 A1	10/14/93	PCT			
	30	WO 94/20073 A1	09/15/94	PCT			
	31	WO 94/22429 A1	10/13/94	PCT			
	32	WO 96/10038 A1	04/04/96	PCT			
	33	WO 96/23814 A1	08/08/96	PCT			
	34	WO 96/24671 A1	08/15/96	PCT			
	35	WO 97/18185 A1	05/22/97	PCT	X abstract		
	36	WO 97/23613 A3	07/03/97	PCT			
	37	WO 97/25329 A1	07/17/97	PCT			
	38	WO 97/30170 A1	08/21/97	PCT			
	39	WO 97/31934 A3	09/04/97	PCT			
EXAMINER				DATE CONSIDERED			

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. CELL-0296/ PA524-USw01		Application No. 10/533,003	
				Applicant Helene Margaret Finney, et al.			
				Filing Date April 28, 2005		Group Not Yet Assigned	
				Confirmation No. Not Yet Assigned			
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation		
					YES	NO	
	40	WO 99/00494 A3	01/07/99	PCT			
	41	WO 99/57268 A1	11/11/99	PCT			
	42	WO 02/33101 A1	04/25/02	PCT			
EXAMINER				DATE CONSIDERED			